

**ABSTRACT****TRIANGULAR ASSIGNMENT OF PINS USED FOR DIAGONAL  
INTERCONNECTIONS BETWEEN DIAGONAL CHIPS IN A MULTI-CHIP  
MODULE**

5           A system for minimizing the length of the longest diagonal interconnection.  
A multiple chip module may comprise a first chip connected to a second chip located  
diagonally to the first chip. The first and second chip are interconnected by one or  
more interconnections commonly referred to as diagonal interconnections. Since the  
one or more diagonal interconnections between the first chip and the second chip are  
10       interconnected between a set of pins on each chip that form a triangular pattern, the  
longest diagonal interconnection is substantially the same length as the length of the  
longest orthogonal interconnection. Furthermore, since the one or more diagonal  
interconnections between the first chip and the second chip are interconnected  
between a set of pins on each chip that form a triangular pattern, the longest diagonal  
15       interconnection is substantially the same length as the length of the second longest  
diagonal interconnection.